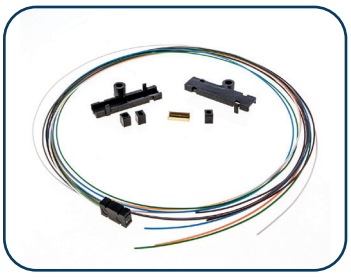
# Cleerline SSF™ 900 µm Fan Out Kit

**Termination With:**
**SSF™ Micro Distribution 250 µm Fibers**



This guide describes fan out kit installation on 250 µm optical fiber for indoor applications. Fan out kits can be assembled any time after the cable sheath has been removed. Installation factors such as available cable slack, location of the termination hardware and the question of build tube slack storage as opposed to cable slack can dictate when and where you choose to mount the cable end and assemble your fan out kit.

The jacketing of the cable should be removed so that the stripped length of the fiber is at least 6 inches longer than the fan out kit in use.

**4-12 Strand Fan Out Kit Contents**

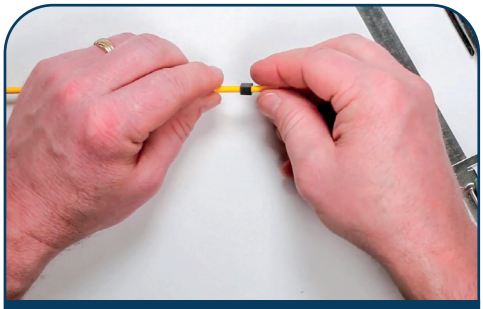
a. 1 x fan out kit housing bottom
b. 1 x fan out kit housing top
c. 1 x color coded furcation assembly for 1 to 12 fibers
d. 2 x jacketing holding clips for 2.4 mm/3.0 mm tubes
e. 1 x jacket holding clip for jacketed ribbon fiber
g. 1 x brass jacket crimp

**24 Strand Fan Out Kit Contents**

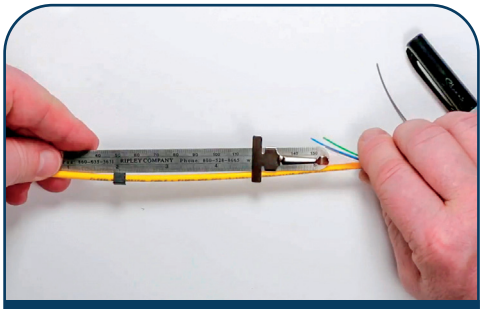
a. 1 x fan out kit housing bottom
b. 1 x fan out kit housing top
c. 2 x color coded furcation assembly for 1 to 12 fibers*
d. 1 x jacketing holding clips 3.0 mm tubes
e. 1 x brass jacket crimp

***Note blocks 1 & 2 are identical. Notating or marking to differentiate fibers is recommended.**

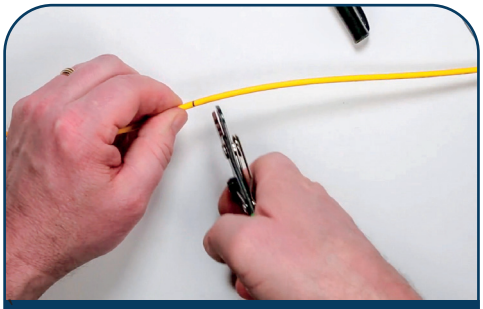
| PART NUMBER | DESCRIPTION |
|---|---|
| FAN0425M250 | 4 Strand - 25 in / 63.5 cm |
| FAN0436M250 | 4 Strand - 36 in / 91.4 cm |
| FAN0625M250 | 6 Strand- 25 in / 63.5 cm |
| FAN0636M250 | 6 Strand - 36 in / 91.4 cm |
| FAN1225M250 | 12 Strand - 25 in / 63.5 cm |
| FAN1236M250 | 12 Strand - 36 in / 91.4 cm |
| FAN2425M250 | 24 Strand - 25 in / 63.5 cm |
| FAN2436M250 | 24 Strand - 36 in / 91.4 cm |



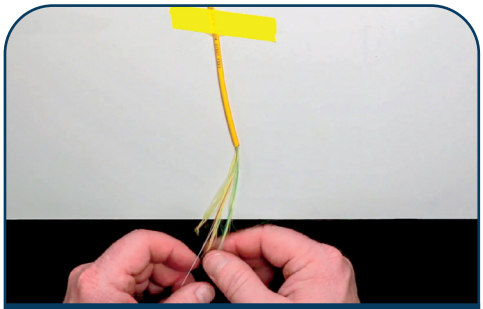
1. Slide the included properly sized holding clip for the cable being installed onto the cable jacket.



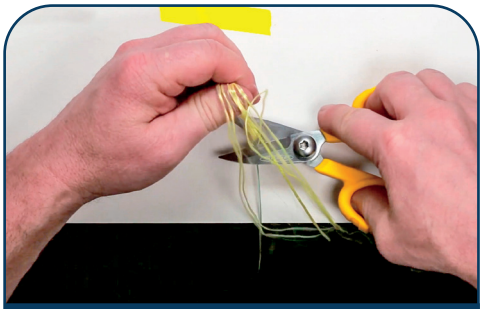
2. Measure the fan out tubing down the length of the cable. From this point, place a mark 6” from the end of the tubing.



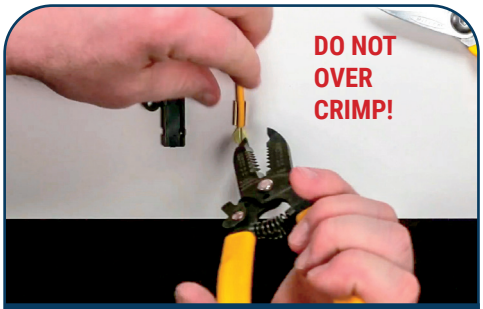
3. Using the fiber strippers’ 2 mm opening, remove the jacket at marking so the exposed fiber is equal to the length of the fan tubing assembly plus 6” or 15 cm.



4. Working on flat surface with an edge, tape down the cable so that the end of the jacket is approximately 2” or 50 mm from the edge.



5. With fibers draping over the edge of the work surface, separate aramid yarns from fiber and cut yarns closely to the end of the cable jacket.




6. Place the brass jacket crimp under the cable flush with the end of the cable jacket. Use pliers to bend the jacket crimp just enough so that it holds the cable jacket.

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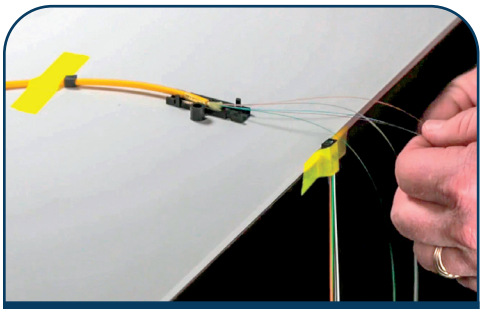
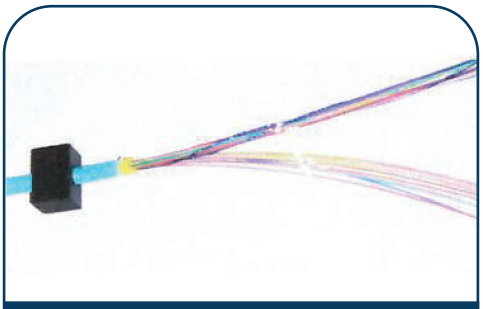
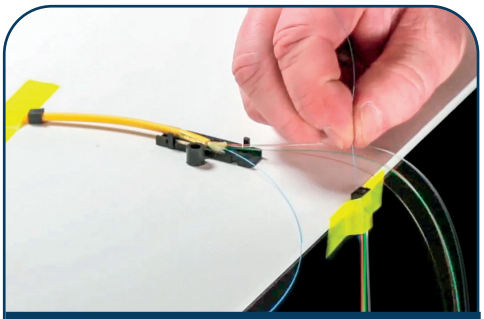


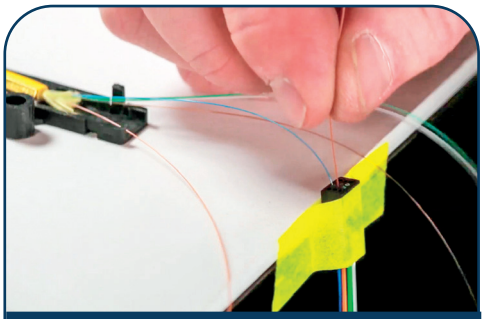
7. Tape the block section of the fan out kit assembly to the edge of the work surface so the tubes hang down to the floor. Separate fibers back to the jacket.



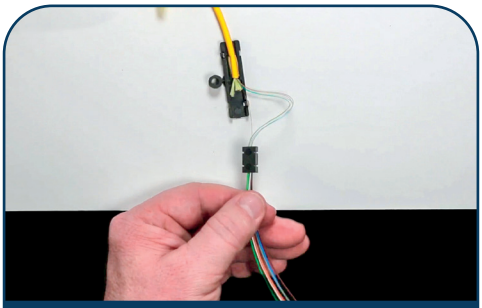
7A. For 24 strand fan out kit, separate fibers into 2 x 12 fiber color-coded bundles. Following directions in step 8 - 9, feed 12 fibers through each furcation assembly.



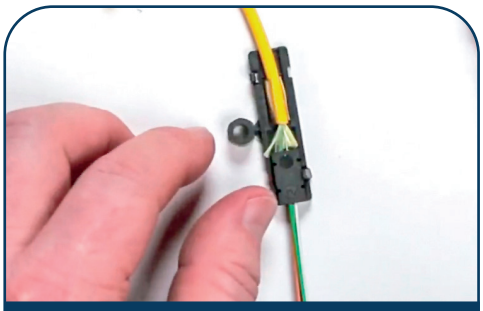
8. Insert each fiber through the matching colored furcation tube in the block until the fiber exits the far end of the tubing towards the floor.



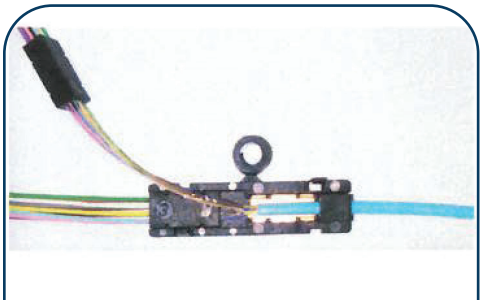
9. Ensure the fibers are not twisted around each other as they enter the block as this may cause attenuation from micro-bends at the point where they enter the block.



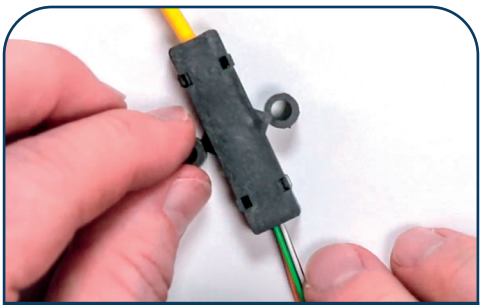
10. Remove furcation assembly from work surface. Holding all fibers on far end, slide assembly towards the jacket, leaving ½" or 12 mm between the block and the jacket.



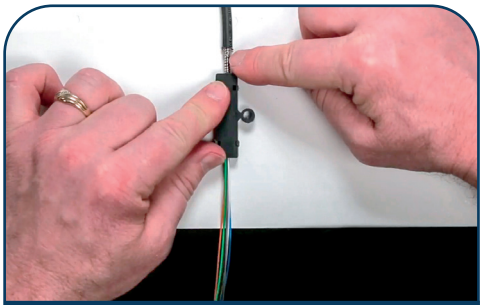
11. Slide the holding clip forward against the jacket crimp and insert one furcation tube assembly, jacket crimp, and jacket holding clip into the fan out kit housing bottom.



11A. For 24 strand fan out kit, insert second furcation assembly block into housing top.



12. Place the fan out kit housing top on the bottom and press until the housing snaps together.



12A. The installation process is the same for armored type cables. Install the jacket crimp to the steel tape and ground as necessary.

**To watch the instructional video, visit cleerlinefiber.com/resources**